

**CLAIMS**

1. Process for removing nitric oxides ( $\text{NO}_x$ ) and nitrous oxide ( $\text{N}_2\text{O}$ ) from a gas comprising  $\text{NO}_x$ ,  $\text{N}_2\text{O}$ , oxygen and water comprising:

5                   - adding an amount of ammonia to said gas such that the amount of ammonia is at a value  $0.7 < X < 1.4$ , wherein X is the voluminal ratio of ammonia/nitrogen oxides;

                  -causing said gas to circulate at temperatures ranging between 200 and 600 °C, on a catalyst comprising an iron beta-zeolite .

2. Process according to claim 1, wherein said gas comprises between 100 and 7000 ppmv of  $\text{NO}_x$  and  $\text{N}_2\text{O}$ .

3. Process according to claim 1, wherein said iron beta-zeolite comprises an iron beta-zeolite granule and an agglomeration binder.

4. Process according to claim 1 in which the iron beta-zeolite is a beta zeolite of Si/Al molar ratio ranging between 8 and 100, charged with iron by impregnation or exchange, in which the content by weight of iron ranges between 0.02 and 8%.

5. Process according to claim 4, wherein the Si/Al molar ratio ranges between 8 and 20.

6. Process according to claim 4, wherein the content by weight of iron ranges between 0.5-3%.

7. Process according to claim 1, in which said gas circulates over the iron beta catalyst at voluminal velocities per hour (VVH) from 1000 to 50 000  $\text{h}^{-1}$ .

8. Process according to claim 1, wherein the volume content of oxygen ranges between 1.5 and 5% and the volume content of water between 0.5 and 5%.

9. Process according to claim 1, in which the gas is a tail gas from a nitric acid production factory.